## WHAT IS CLAIMED IS:

- 1. An electro-optical device, comprising:
  - a first substrate having a plurality of pixel electrodes;
  - a second substrate having an opposing electrode facing the pixel
- 5 electrodes; and

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an electro-optical material interposed between the first substrate and the second substrate,

the electro-optical material between adjacent pixel electrodes being driven by mutually opposite polarity having a thickness less than a thickness of the electro-optical material between adjacent pixel electrodes being driven by same polarity.

- 2. The electro-optical device according to claim 1, further comprising:
  a thickness D of the electro-optical material formed in a transmissive
  area in relation to the pixel electrode; and
- a spacing W formed between the adjacent pixel electrodes being driven by mutually opposite polarity;

the adjacent pixel electrodes arranged to have a relationship of 0.5D<W.

- 3. The electro-optical device according to claim 1, further comprising:
  20 a spacing W formed between the adjacent pixel electrodes being driven
  by mutually opposite polarity;
  - a thickness d of the electro-optical material between one of the adjacent pixel electrodes being driven by mutually opposite polarity and the opposing electrode;
- 25 the spacing being nearly equal to the thickness d.
  - 4. The electro-optical device according to claim 1,
    the first substrate comprising a plurality of data lines, a plurality of
    scanning lines intersecting the data lines, a plurality of thin film transistors provided
    in corresponding to the plurality of data lines and the plurality of scanning lines.
- The electro-optical device according to claim 4, the first substrate including:

a plurality of projections formed in a position corresponding to a spacing between the adjacent pixel electrodes which are driven by mutually opposite polarity. 6. The electro-optical device according to claim 5, further comprising:

a plurality of capacitor lines being formed along the scanning lines,

- the projections being formed in an area where the scanning line and the capacitor line are formed.
- The electro-optical device according to claim 4,
   the second substrate including a plurality of projections formed in a
   position corresponding to a spacing between the adjacent pixel electrodes which are
   driven by mutually opposite polarity.
  - 8. The electro-optical device according to claim 1, the electro-material being a vertically aligned liquid crystal.
  - 9. A projector, comprising:a light valve including the electro-optical device according to claim 1;
- anda projection optical system.